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ABSTRACT

This resource guide for distance learning information, courses, and programming covers: (1) audiographics programming by the Pennsylvania Teleteaching Project; (2) cable programming, including the Cable Alliance for Education's Cable in the Classroom projects, Consumer News and Business Channel, Nostalgia Television, PENNARAMA Channel, Silent Network, and Univision; (3) computer online information networks, including the Pennsylvania Public Television Network's Learning Link, NASA (National Aeronautics and Space Administration) Spacelink, National Distance Learning Center, and Annenberg/CPB Math and Science Project; (4) instructional support centers in Pennsylvania; (5) public television, including the Corporation for Public Broadcasting, Elementary and Secondary Service, and Pennsylvania Public Television Network; (6) satellite programming, including the Adult Learning Satellite Service, Agency for Instructional Technology, Arts and Sciences Teleconferencing Service, Central Educational Telecommunications Network, Deep Dish TV Network, Emergency Education Network, Educational Satellite Network (ESN), Educational Telecommunications Network, Adult Learning Channel, ESN Parent Channel, FRANCE TV Magazine, Louisiana Education Resource Network, Massachusetts Corporation for Educational Telecommunications, NASA Education Videoconference Series for Educators, National Instructional Satellite Schedule, SCISTAR, SCOLA, Satellite Educational Resources Consortium, and TI-IN; (7) software programs by NASA; (8) videocassette programming, including the Annenberg/CPB Project, FRANCE TV Magazine, Great Plains National Network, Modern Satellite Services, and TV Ontario; and (9) consultants on distance education programming, including the Pennsylvania Department of Education and the United States Distance Learning Association. (ALF)

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# Distance Learning Programming

A resource guide for distance learning information, courses and programming prepared under a grant from the Center for Rural Pennsylvania.

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## AUGUST 12, 1992

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## Distance Learning Programming

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# AUDIOGRAPHICS PROGRAMMING

**The Pennsylvania Teleteaching Project**
Riverview Intermediate Unit
880 Greencrest Drive
Shippenville, PA 16254
814-226-7103/1-800-672-7123
Director: Dorothy L. Hajdu
(A U.S. Department of Education FIRST project)

The Pennsylvania Teleteaching Project uses computer and audio programming delivered over telephone lines to offer students a highly interactive means of distance learning.

Courses available:

- Pascal
- Computer Processing
- Physics
- Calculus
- Remedial Health
- SAT Math
- Tells Math
- Advanced English
- Advanced Physics
- Teleteaching For Teachers
- Computer assisted Drafting
- Chapter I Reading
- French III
- Spanish
- Gifted studies
- Language Arts
- Social skills
- Social Psychology
- SAT English

PA Teleteaching Courses can be delivered within the following organizational levels:

- Elementary
- Secondary
- Vocational Technical
- College/Universities
- Public
- Private
- Correction institutions

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## CABLE PROGRAMMING

**Cable Alliance for Education**
Cable in the Classroom
1900 N. Beauregard Street
Suite 108
Alexandria, Virginia 22311
703-845-1400
Contact: Bobbi Kamil

**Members of Cable in the Classroom include:**

Arts & Entertainment Network
Black Entertainment Television
Bravo
C-Span
CNBC
CNN
Courtroom Television Network
The Discovery Channel
ESPN
The Family Channel
The Learning Channel
Lifetime
Mind Extension University
The Monitor Channel
Nickelodeon
PBS
Showtime
VISN Network
The Weather Channel
X*PRESS X*Change

The following is a detailed description of some of the cable channels that are part of the non-profit "Cable Alliance for Education's Cable in the Classroom" project.

**Arts & Entertainment Network**
A&E Classroom
P.O. Box 1610
Grand Central Station
New York, NY 10163-1610
212-661-4500

A&E Classroom is an hour of commercial free programming weekday mornings intended for videotaping. Segments can be used to supplement established curriculum.

**Black Entertainment Television**
1232-31st Street NW
Washington, DC 20007
202-408-5480

BET's programming is dedicated to black culture, events, entertainment, and issues.

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## CABLE PROGRAMMING (Cont'd)

**C-Span in the Classroom**
400 North Capitol St. NW
Washington, DC 20001
202-737-3220 1-800-523-7586
(Privately funded to serve the public by America's Cable Television companies)

C-Span in the Classroom is a free educational service created by the cable television network to assist teachers who use C-Span's programming as a teaching resource tool. Programming includes coverage of the U.S. House of Representatives and U.S. Senate, congressional hearings, press conferences, call-in programs, international governments in action, and other policy events without editing, commercials, or commentary.

Schools registered with C-Span are granted full off-air taping rights to educators for classroom use only.

**CNN Newsroom (non-profit)**
10 N.Main Street
Yardly, PA 19067
1-800-344-6219

CNN Newsroom is a fifteen minute, commercial free, cable delivered news program offered free of charge to middle and secondary schools. The program changes each day. "Future Desk","International Desk", "Business Desk", "Science Desk", "Editor's Desk" are each aired once a week.

A daily classroom guide is also available through several delivery systems.

* MCI Mail can deliver the guide through on-line telecommunications or fax machine. For more information call 1-800-388-4128.

* X*Press/X*Change is an extensive, cable delivered service. For more information call 1-800-772-6397 (see entry for more details).

* GTE Education Services can be used to download program guide. For more information call 1-800-927-3000.

* PennLink/DOE: Pennsylvania residents can receive the program guide through the state department of education's PennLink. For more information see entry under the State Library of Pennsylvania or call 717-787-1831 (contact Jean Tuzinski).

To receive off cable taping right, request a School Enrollment and Licensing Form from CNN Newsroom. Once the form is completed and mail, off air taping rights are immediately granted. There is no fee for this license.

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## CABLE PROGRAMMING (Cont'd)

**CNN presents Democracy in America**
**Turner Educational Services, INC.**
One CNN Center, Box 105366
Atlanta, Georgia 30348-5366
1-800-742-1096
(Supported in part by the Markle Foundation)

Democracy in America an extensive package of educational programming supported by printed teaching materials available free of charge to participating schools. It will provide coverage of all election events plus specials pertaining to our democratic process.

Taping rights can be obtained by calling the toll free number above.

**CNBC**
2200 Fletcher Avenue
Fort Lee, NJ 07024
201-585-6474

**The Discovery Channel: Assignment Discovery**
10 N. Main Street
Yardley, PA 19067
1-800-321-1832

**ESPN: The Total Sports Network**
ESPN Plaza
Bristol, CT 06010
203-585-2357

**The Family Channel**
1000 Centerville Turnpike
Virginia Beach, VA 23463
804-523-7301

**The Learning Channel**
1525 Wilson Blvd
Suite 550
Rosslyn, VA 22209
1-800-346-0032

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## CABLE PROGRAMMING (Cont'd)

This channel is also affiliated with the Discovery Channel and offers 24 hour educational programming including telecourses with out commercial interruptions. It covers the following subjects:

| | |
|---|---|
| Art | History |
| Culture | Life Skills/Health Education |
| English | Language Arts |
| Mathematics | Foreign Language |
| News/Information | Science |
| Guidance/College Prep | |

**Lifetime Television**
36-12 35th Avenue
Astoria, NY 11106
718-482-4127
Programming for and about women

**Mind Extension University**
The Education Network
9697 East Mineral Ave
P.O. Box 3309
Englewood, Colorado 80155-3309
303-792-3111/1-800-777-MIND
(A subsidiary of Jones Education Network, Inc.)

Mind Extension University provides courses at an undergraduate and master's degree level delivered primarily by cable. Classes can be also be received by satellite or videotapes.

Master's degree programs are available for 1992-93:

* Master of Business Administration from Colorado State University
* Master of Arts in Education and Human Development from the George Washington University
* Master of Library Science and Certificate Programs from the University of Arizona
* General Studies from ME/U Affiliated Universities

The following undergraduate degree programs are available for 1992-93:

Bachelor's Completion Degree programs & National Universities Degree Consortium (NUDC)

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## CABLE PROGRAMMING (Cont'd)

This consortium consists of nine colleges and universities around the country that offer completion courses through ME/U. They include:

* Management Completion degree
* Social Science Completion degree
* Interdisciplinary Social Science Completion degree
* Agriculture, Animal Sciences and Industry Completion degree

Undergraduate General Studies are also available in the following subjects

| | | |
|---|---|---|
| Business | Mathematics | Science |
| Education | Library Science | Language |
| Literature | Humanities | History |
| Social & Political Science | | |

**Nickelodeon**
1515 Broadway
New York, NY 10036
212-258-7500
Children's programming

**Showtime**
1633 Broadway
New York, NY 10019
212-708-1579
Premium cable channel offering some educational and entertainment programming for children.

**The Weather Channel**
2600 Cumberland Parkway
Atlanta, Georgia 30339
404-434-6800

**X*PRESS X*CHANGE**
X*PRESS Information Services, Ltd.
4643 South Ulster Street, Suite 340
Denver, CO 80237
303-721-5412
Contact: Kim McKissick, Education Coordinator

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## CABLE PROGRAMMING (Cont'd)

X*PRESS X*CHANGE is a 24 hour computer information service which includes national and international news, regional and state weather reports, sports scores and schedules, shopping , lifestyle trends and entertainment news.
It can also be used to track stocks and receive public domain software.

X*PRESS is delivered by cable to personal computers. Delivers daily video taping schedules of Cable in the Classroom programmer and The Weather Channel lesson plans.

X*PRESS Media Center can be accessed by Macitosh users featuring a catalog of interactive programming available.
Following channel are available through Education Satellite Network or through the programmer directly.

**Cable channels not affiliated with "Cable in the Classroom"**

**Consumer News and Business Channel**
2200 Fletcher Ave.
Fort Lee, NJ 07024
201-585-6469

**Nostalgia Television**
125 E. John Carpenter Freeway
Suite 670
Irving, Tx 75062
214-506-7300
Programming includes classic movies & retrospective of historical events.

**The PENNARAMA Channel**
Pennsylvania Cable Network
Pennsylvania State University
203 Wagner Annex
University Park, PA 16802
814-863-0023
General manager: Mark Erstling
Adult Education Courses

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## CABLE PROGRAMMING (Cont'd)

PENNARAMA is a cable television service for Pennsylvania. It is managed by WPSX-TV, The Pennsylvania State University, which shares services and facilities with it.

PENNARAMA is designed to be valuable to individuals pursuing further education, occupational qualifications, or a vocational interests.
Programming varies from GED and college courses, world events, and entertainment.

For more information, contact the above address.

**The Silent Network**
P.O. Box 1902
Beverly Hills, CA 90213
213-654-6972
Specialized programming for the deaf and hearing impaired with open captions.

**Univision**
9200 Sunset Blvd
Los Angeles, CA 90069
213-281-2475
Spanish language programming

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## COMPUTER ON-LINE INFORMATION NETWORKS

Learning Link
Operated by Pennsylvania Public Television Network
Box 397
Hershey, PA 17033
717-533-3548
Funded by The Corporation for Public Broadcasting (CPB)

Learning Link's purpose is to deliver information and to foster communication between education professionals.

Learning Link offers nine basic services:

* **Schedule information**: Schedule and program info for all broadcasts at least four weeks in advance.

* **Resource Databases**: Catalogs of educational resources that can include local field trips, cultural resources or educational products

* **Gateways:** Direct links to other computer databases and online information sources such as newswires, journal abstracts and resources like ERIC

* **Electronic Mail**
* **Discussions**
* **File Libraries**
* **Surveys**
* **Bulletin Boards**
* **Forums**

Once registered with Learning Link, there is no fee for using the service. However, some on-line services available through **Gateways** may require an additional registration and/or user fee.

**NASA Spacelink**
Educational Technology Branch
NASA Headquarters
Code XET
Washington, DC 20544
205-895-0028

This database of information and educational materials is accessible by 300, 1200, or 2400 baud modem.

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## COMPUTER ON-LINE INFORMATION NETWORKS (Cont'd)

Spacelink contains news, history of pre-shuttle programs, a listing of all NASA educational services, reports on how NASA research has impacted everyday life, and more.

There is no cost for this service except normal long distance charges.

**National Distance Learning Center**
The Clearinghouse for Distance Learning
Owensboro Community College
4800 New Hartford Road
Owensboro, Kentucky 42323-9990
Established by the United States Distance Learning Association

The National Distance Learning Center is a centralized electronic information source for distance learning materials. The NDLC provides detailed listings of courses which are actually available. Producers of distance learning materials are invited to post their course listings with NDLC. Users of distance learning can obtain the most recent courses available by using this database.

Using this service is completely free (except the cost of long distance charges).

If you already have communications software and modem, you can call NDLC directly:

Users: Call 502-686-4555. You will be asked some basic registration information and can begin searching the database immediately.

Producers: Contact NDLC by voice phone at 502-686-4556 to register as a program producer and receive the user name and password necessary for system security. You may then list your available courses through modem.

The NDLC can supply communications software with instructions for installation on your computer and a user's guide. Generic software can be used. All callers should set their communications software for no parity, 8 data bits, 1 stop bit. Connections are supported up to 2400 baud.

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## FOUNDATION SUPPORTED PROGRAMMING

**The Annenberg/CPB Math and Science Project**
901 E.Street, NW,
Washington DC 20004
202-879-9658

The Annenberg Foundation and CPB (Corporation for Public Broadcasting) have announced a new 12 year, $60 million initiative to improve math and science education in elementary and secondary schools using information and telecommunications technologies. Guidelines for funding can be obtained from the above address.

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## INSTRUCTIONAL SUPPORT CENTERS

**Eastern Instructional Support Center**
200 Anderson Road
King of Prussia, PA 19406
215-265-7321/1-800-441-3215

**Mid State Instructional Support Center**
150 South Progress Avenue
Harrisburg, PA 17109
717-657-5840/1-800-222-7372

**Western Instructional Support Center**
5346 William Flynn Highway, Route 8
Gibsonia, PA 15044
412-443-7821, 412-961-0294
1-800-446-5607
This center is the expert on distance learning for intermediate units in the state.

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## PUBLIC TELEVISION

**The Corporation for Public Broadcasting**
901 E.Street, NW,
Washington DC 20004

Educational activities include:

Project Education is a television-radio outreach initiative to help communities form coalitions among public broadcasting, education, and business and achieve the national education goals.

The Teacher Training Institute (TTI) which uses instructional television to enhance science teaching.

Extending the Neighborhood to Child Care: a project to determine how the series Mr. Roger's Neighborhood could be incorporated into a child care curriculum.

Talk of the Nation: a nationwide call-in program broadcast over public radio.

CPB is working with the New American Schools Development Corporation which is selecting design teams to create a new generation of American schools to enable students to compete in a global environment.

**Elementary and Secondary Service (EES)**
Public Broadcasting Service
1320 Braddock Place
Alexandria, VA 22314
703-739-5038

Contact the Learning Services Director at your local PBS station (see below)
ESS provides programming that teaches basic learning skills from grades pre-school to high school. It helps give early learners a head start and dropouts a second chance.

**Pennsylvania Public Television Network**
Box 397
Hershey, PA 17033
717-533-3548

The Pennsylvania Public Television Network provides programming for distance education through seven public television station around the state. Contact the station that services your area for more information.

| | | | | |
|---|---|---|---|---|
| WHYY-TV | Philadelphia | WITF-TV | Harrisburg | WQLN-TV Erie |
| WPSX-TV | University Park | WVIA-TV | Scranton | |
| WQED-TV | Pittsburgh | WLVT-TV | Allentown/Bethlehem | |

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## SATELLITE PROGRAMMING

**Adult Learning Satellite Service**
Public Broadcasting Service
1320 Braddock Place
Alexandria, Virginia 22314-1698
703-739-5038

The Adult Learning Satellite Service delivers a broad range of educational programming via satellite. A percentage ALSS's income is returned to the educational outreach departments of local public television stations.

The Business Channel, a division of ALSS, offers business and economic programming. Many of the programs delivered on this channel were originally available only to corporations.

ALSS programs include:

*Telecourses which can be offered as comprehensive college-credit courses for distance learners. Subject matter covers a wide range of topics.

*Audiovisual resource programs including some of PBS's finest prime time programs, which can be used as supplementary learning resources for classes and libraries.

*Live interactive video conferences give organizations the opportunity to host local conferences featuring national experts on the most pressing issues facing education, business, health, and other fields.

The Adult Learning Satellite Service and The Business Channel transmissions are private communications between PBS and licensed organizations.

Association costs for both ALSS and TBC for one year....$1500.00
Association costs for The Business Channel only.....$500.00

ALSS also offers a College by Cassette option allowing the start up of a telecourse without a large monetary investment (enrollment is $40.00 per student). For more information call 1-800-257-2578.

**Agency for Instructional Technology (AIT)**
Box A, 1111 W. 17th Street
Bloomington, IN 47402-0120
1-800-457-4509/812-339-2203

AIT is a nonprofit U.S./Canadian organization providing leadership and service through development, acquisition, and distribution of technology-based instructional materials.

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## SATELLITE PROGRAMMING (Cont'd)

AIT is delivered by satellite in the U.S. and Canada to non-commercial and instructional television stations (PBS and NISS for example).

Products are available through the AIT catalog including video programming, computer software, interactive videodiscs, plus the supporting print materials.

Programming covers grades pre-kindergarten through 12th grade and adult education in all curriculum areas plus career development, early childhood, guidance/mental health, staff development, and vocational education.

AIT also has programming available for and about special needs students. Some of these include Sexual Abuse Prevention for Children with Physical Handicaps and Visual Arts for the Physically Challenged Person (plus other programs).

**Arts and Sciences Teleconferencing Service (ASTS)**
Oklahoma State University
401 Life Sciences East
Stillwater, OK 74078-0276
1-800-452-2787 FAX: 405-744-7201
Contact: Leigh Beaulieu

ASTS is a satellite delivered instruction service providing live, interactive secondary school courses. ASTS was developed as a partnership between rural school administrators, the Oklahoma Department of Education and the College of Arts and Sciences at OSU, with the primary goal of providing equal access to educational opportunities.

ASTS has developed a distinctive model for its distance learning courses. Each course is taught through a live, interactive broadcast 2-3 times a week, including high technology graphics and demonstrations. On the alternate days, the on-site instructor, or "Teaching Partner" supervises exercises, gives quizzes and tests, and reinforces material taught by the ASTS instructor.

All courses have 24 hour access to the professor and staff, including 8-12 hours of personal access each day. Students can also network with other ASTS students around the country.

Courses offered by ASTS include:

German I & II
Russian I & II
AP Physics
AP Chemistry
AP Calculus
Trigonometry/Analytic Geometry
Applied Economics
Basic English and Reading
PSAT/NMSQT/SAT prep course
ACT prep course
AP American Government

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## SATELLITE PROGRAMMING (Cont'd)

**Central Educational Telecommunications Network (CETN)**
Managed by the Black College Satellite Network (BCSN)
500 North Capital Street, N.W. Suite 801
Washington, D.C. 20001
202-737-2405

The CETN is a distance learning network providing programs and services to urban, suburban and rural local education agencies using state of the art telecommunication technology. These technologies include satellite, cable, fiber optic and digital compression transmissions.

CETN provides high quality interactive telecourses for grades K-12 and staff development workshops. All courses are produced by Historically Black Colleges and Universities and taught by master teaches.

An overview of Fall 1992 courses include:

* Elementary and middle school science courses and high school physics.
* 7 elementary math courses, a middle school computer course, and high school calculus and three dimensional design with hands on geometry.
* 4 Elementary language courses in French and Spanish, High school Japanese and Mandarin Chinese, and English as a Second language.
* Culture and literacy courses including music, humanities, and writing skills.

**Deep Dish TV Network**
339 Lafayette Street
New York, NY 10012
212-473-8933

This network links community producers, programmers, and media activists who support the idea of a progressive TV network. Programming includes public policy issues, the activities of grass roots movements, and alternative arts and culture features.

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## SATELLITE PROGRAMMING (Cont'd)

**Emergency Education Network (EENET)**
Sue Downin Executive Producer
Emmitsburg, Maryland 21727
301-447-1068

Offers Videoconferencing in various areas of community service. These conferences can be used to promote partnerships between school and community.
An extensive collection of previous recorded programs are available from:

Technical Resources, Inc.
3202 Tower Oaks Boulevard
#200
Rockville, MD 20852
301-231-5250
Attn: Wendy Neel

**ESN: Educational Satellite Network**
Missouri School Boards Association
2100 I-70 Drive SW
Columbia, MO 65203
1-800-243-MSBA/314-445-9920
Contact: Betty McDonald
(funded by Federal Star Schools program)

ESN offers a unique learning resource to school districts by providing enhancement and enrichment programming, in-service and staff development programs, and instructional courses for credit.

ESN produces its own programming and serves as a program broker for other instructional programming. These sources include:

| | |
|---|---|
| The Discovery Channel | SCOLA |
| The Silent Network | The Learning Channel |
| CNBC | Univision |
| The Nostalgia Channel | C-Span |
| FRANCE-TV | Black Entertainment Television |

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## SATELLITE PROGRAMMING (Cont'd)

**ETN: Educational Telecommunications Network**
Educational Materials Development Center
Room 260
Los Angeles County Office of Education
9300 Imperial Hwy
Downey, CA 90242-2890
Contact: Sandra Lapham
1-310-922-6668

ETN is a television network offering programming for administrators, teachers, students and parents. Programs in staff development, adult education, and student learning are delivered via Ku-Band satellite.

To subscribe to ETN, send a letter of intent on requesting agency letterhead. Identify the level (i.e. state, county, consortium, school, district). State that your agency wishes to join ETN and request a contract to issued to that effect. Send request to the contact and address above.

Membership includes access to ETN staff development programs, parent programs and TEAMS distance learning programs.

Cost per school site membership.....$500.00
Cost per school district.....$1000.00 plus $200.00 per school

ETN programs include:

**TEAMS**: Telecommunications Education for Advances in Mathematics and Science (Previously funded for two years by the Department of Education Star Schools program, is now funded by the Los Angels County Office of Education)

TEAMS programs focus on math and science courses for students, with extensive support for the teachers of these courses. This program has also incorporates a component for the parents, helping them to understand the material their children are learning and reinforce support of education at home.

**ABCD**: The Academy for Business Career Development is a training and development program for classified staff in school districts. Participation in these programs is on a fee basis and requires prior registration.

**The Adult Learning Channel** is an extensive continuing education channel for teacher. It is available as part of the ESN membership.

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## SATELLITE PROGRAMMING (Cont'd)

**The ESN Parent Channel** (Home-School Connection Series) transmits programs for parents. These educational programs are broadcast on the first and third Tuesday of each month and are broadcast in both English and Spanish.

**The Parent Channel** helps to address important parental needs and assists schools in the development of a meaningful home-school connection.

**The Parent Channel** programming includes:

| | |
|---|---|
| Parents Teach Too! | Postponing Pre-Teen Sexual Involvement |
| Improving Self Esteem | Parent Teen Communication Skills |
| School Readiness | Career Choices for your Child |
| Gang Prevention | (and many others) |

**FRANCE TV Magazine**
French language programming
For Satellite information: 1-800-257-2578
For Videocassette information: 1-800-992-3788

**Louisiana Educational Resource Network**
Eddy Smith
Southern Louisiana University
Shreveport Metro Center
610 Texas Street
Shreveport, LA 71101
318-674-3444 or 318-674-3358

**Mass LearnPike MCET-**
Massachusetts Corporation For Educational Telecommunications
38 Sidney Street, Suite 300
Cambridge, MA 02139
617-621-0290 FAX 617-621-0291

Program: Reach for the Stars is designed to improve science teaching in middle schools.

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## SATELLITE PROGRAMMING (Cont'd)

**NASA: National Aeronautics and Space Administration**
NASA Education Videoconference Series for Educators
Educational Service project
300 North Cardell
Oklahoma State University
Stillwater, OK 74078-0422

This is NASA primary involvement in distance learning. The videoconference series features researchers and other space experts, which can be received through C-band satellite transmission.

Site Registration is free.

**NISS: National Instructional(TV) Satellite Schedule**
Administered by Southern Educational Communications Association
(SECA)
P.O. Box 50008
Columbia, SC 29250

The National ITV Satellite Schedule is a national distributor of educational programming delivering 124 instructional series during their schedule year. Programs span a variety of topics and are produced by AIT, TVO, PBS, as well as others.

NISS is a subscription satellite delivery service administered by SECA. To use this service, agencies must be authorized by SECA and must have acquired use rights for the programming from the copyright holder or the series distributor representative (NISS).

Authorization and administration questions should be directed to:
**Bill Meyers, Project Director 803-799-5517**
Scheduling and transmission questions should be directed to:
**Greg Tillou, SECA, 803-799-5517**



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## SATELLITE PROGRAMMING (Cont'd)

**SCISTAR:**
Interactive Satellite Television
Talcott Mountain Science Center for Student Involvement, Inc.
Montivideo Road
Avon, CT 06001
203-677-8571
Contact: Donald LaSalle

SCISTAR has two specific programs it presents to students.

On the Shoulders of Giants: This series of ten minute satellite broadcasts throughout the school year brings experts in the fields of science and technology into the classroom. The programs are interactive because students can call the presenter directly with questions.

The National Student Weather Network: This is a hands on program allowing students computer access to the same up-to-the-minute weather information used by meteorologists.

Included with the National Student Weather Network program are:

* Accu-Weather Forecaster computer software and curriculum guides
* Full rights to view, videotape, and call-in to our annual series of satellite and cable video broadcasts
* A complete set of weather instruments for local weather observations, along with printed materials for hands-on exploration
* Use of telecommunication to share local observations with other schools in the network
* On-going support and communications in support of the weather activities in the school

SCISTAR Program costs for the entire school year:

On the Shoulders of Giants.....$950.00
(Price includes 10 live interactive broadcasts and curriculum packages)

National Student Weather Network.....$600.00*
(Price includes Accu-Weather Forecaster software, student instrument kit, regional teacher workshops, telephone support hot-line)

Telecommunications Power Package.....$1245.00 (Both packages)*
* Online Fees of $250.00 are also needed and is paid directly to Accu-Weather Inc., 619 W. College Ave, State College, PA 16801

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## SATELLITE PROGRAMMING (Cont'd)

**SCOLA**
2500 California Street
Omaha NE 68178-0778
402-280-4063

SCOLA is a satellite based news service (also available to cable systems) that provides foreign TV news programming in 20 languages from 30 countries to schools nationwide, 24 hours a day, 7 days a week.

An affiliation fee must be paid to SCOLA upon subscribing. These fees are assessed differently depended on whether a school district (or districts), cable system or business is subscribing.

SCOLA also provides an Outwrite service. Outwrite consists of a transcript of 5-10 minutes of original language text, the english translation, vocabulary, glossaries of important terms, discussion topics and a quiz in both languages.
Costs of Outwrite per semester are as follows:
For German, Egypt, China, Italy, France, and Spain
price for each per semester.....$80.00
For Russia once a week per semester.....$80.00
For Russia Twice a week per semester.....$150.00
Japan once a week per semester.....$80.00
Japan twice a week per semester.....$150.00
Japan three a week per semester.....$200.00

**Satellite Educational Resources Consortium (SERC)**
P.O. Box 50008
Columbia, SC 29250
SERC Hotline: 1-800-476-5001

**Staff Development Programming**

The SERC Staff Development package consists of twenty different offerings totalling 127 hours of programming.

School Site Purchase: A school may participate in individual SERC offerings at a cost of $40.00 per contract hour. This site fee covers unlimited enrollment at one site only. A school may also purchase the entire package of twenty programs for $4200.00. This entitles the school to unlimited enrollment at one site only.

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## SATELLITE PROGRAMMING (Cont'd)

**Student Instructional Programming**

SERC also offers live, interactive classroom instruction via satellite in the following subjects:

Japanese I & II
AP Economics: Microeconomic
Discrete Math
World Geography: honors
Russian I & II
AP Economics: Macroeconomics
Probability and Statistics
Physics

For more information about SERC, contact the above address or
Jean Turzinski at the State Library of Pennsylvania, School Library Media Advisor, 717-783-4413.

**TI-IN**
Jeanne Moellendick, Educational Consultant
3315 Smith Street
Parkersburg, West Virginia 26104
304-428-1710
1-800-999-8446

TI-IN Network offers programming in seven different areas including direct student instruction, staff development, student enrichment, student test reviews, special programs, subscriber training, and CNN Newsroom (See Cable programming section).

Subscribers can receive TI-IN via Ku-band satellite system, C-band satellite system or cable television.

Fall 1992 TI-IN courses include:

**General Courses**:
Art History & Appreciation
Calculus
Elementary Spanish
French I & II
German I & II
Japanese I & II
Latin I & II
Psychology
Sociology
Spanish I & II

**Science and Technology courses**:
Anatomy & Physiology
Astronomy
Marine Science
Physics*
Principles of Technology

* Physics can be used as an AP course

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## SOFTWARE PROGRAMS

**NASA: National Aeronautics and Space Administration**
Educational Technology Branch
NASA Headquarters
Code XET
Washington, DC 20544

This branch of NASA publishes the catalog Software for Aerospace Education which lists privately produced software and videodiscs on astronomy and space exploration.

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## VIDEOCASSETTE PROGRAMMING

**The Annenberg/CPB Project: Higher Education within Reach**
901 E.Street, NW,
Washington DC 20004

The Annenberg/CPB Project offers video and audio instruction at the undergraduate college level.

This project offers quality teaching and learning materials that offer "non-traditional" college students the flexibility to participate in baccalaureate degree programs. Some of these students include:

* Full and part time working people
* Learner in rural areas
* Individuals with families
* Students who can not afford full time enrollment
* Military personnel
* Physically handicapped students

(These projects can also be used with traditional student populations as well.)

Several college credit courses are offered in the following subject areas:

Humanities
Social Studies
Science and Mathematics

**FRANCE TV Magazine**
French language programming
For Satellite information: 1-800-257-2578
For Videocassette information: 1-800-992-3788

**Great Plains National Network:** .
University of Nebraska
Lincoln, Nebraska
1-800-228-4630
Distributor and clearinghouse of videotaped programming

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## VIDEOCASSETTE PROGRAMMING (Cont'd)

**Modern Satellite Services**
Patrick or Lucille Swonger
Modern Talking Pictures Services
5000 Park Street North
St. Petersburg, FL 33709
813-541-7571
Cost: Free
Distributor and clearinghouse of videotaped programming

**TV Ontario (TVO)**
1140 Kildaire Farm Road
Suite 308
Cary, NC 27511
919-380-0747
1-800-331-9566
FAX 919-380-0961

TV Ontario programs are designed to be integrated into an elementary or secondary instructional program. Their design and development grow out of classroom use and the real needs of teachers and students.

Subject areas include:

| | |
|---|---|
| Arts | Health, Safety and Fitness |
| Business education | Home Economics |
| Career education | Language arts |
| Child development | Mathematics |
| computer Studies | Science, Technology and the |
| Environment | French Language |
| Social Studies | Geography |
| Students at Risk | Guidance |
| Teacher development | Adult education |

Broadcast rights and off-air record rights for TV Ontario ITV series may be purchased for school use. Duplication/distribution rights can be obtained by calling 1-800-331-9566.

TVO has also put five senior math and science programs on videodisc offering high quality that is virtually indestructible.

TVO courses are also available through some PBS stations and NISS distribution (See NISS information above).

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## CONSULTANTS ON DISTANCE EDUCATION PROGRAMMING

**Pennsylvania Department of Education**
Jean Tuzinski, School Library Media Advisor
State Library of Pennsylvania
Division of School Library Media Services
333 Market Street
Harrisburg, PA 17126-0333
717-783-4413

This contact has extensive information on distance learning programs as well as the following:

**Satellite Educational Resources Consortium (SERC) member**

**PENN*LINK**: Electronic information services providing general information, national updates, and teleconferences. Also has a distance learning bulletin board is also available on PENN*LINK electronic .

**State and National Teleconferences**: Staff development available for most subject areas.

**United States Distance Learning Association**
Box 5129
San Ramon, CA 94583
415-820-5845

USDLA Purpose: The United States Distance Learning Association is a non profit association and application of distance learning to education and training. Among the constituents we serve; K through 12; higher education, continuing education and corporate training.

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